Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

What We Claim Is:

1-7. (cancelled)

8. (new)   A method of up-shifting a twin-clutch transmission of a vehicle, comprising:

detecting an incorrectly pre-selected target gear;

calculating a maximum output torque (M_{Red}) for an engine in said vehicle, said M_{Red} associated with operation of said transmission in a correct target gear;

reducing a current output torque (M_{Motor}) for said engine to equal said M_{Red}; and,

engaging said correct target gear.

9. (new)   The method of Claim 8 further comprising:

setting a first setpoint torque (M_{Mot_soll}) for said engine equal to said M_{Red}.

10. (new)   The method of Claim 8 wherein reducing a current output torque (M_{Motor}) further comprises decreasing a second setpoint torque M_{Mot_soll}.

11. (new)   The method of Claim 10 wherein decreasing a second setpoint torque M_{Mot_soll} further comprises linearly decreasing said second setpoint torque M_{Mot_soll}.

12. (new)   The method of Claim 8 further comprising:

determining whether said M_{Motor} is greater than said M_{Red}; and,

performing at least two iterations of said steps of calculating said M_{Red}, determining whether said M_{Motor} is greater than said M_{Red}, and reducing M_{Motor} to equal said M_{Red}.

13.   The method of Claim 8 wherein calculating said M_{Red} further comprises calculating said M_{Red} according to the following equation:

$$M_{Red} = firstM_{FW}\left(1 - \frac{i_{alt} - i_{neu}}{i_{alt}}\right)$$, wherein said first M_{FW} comprises a driver's desired torque, said

i_{alt} comprises a ratio of the initial gear, and said i_{neu} comprises a ratio of the correct target gear.

14. (new)   The method of Claim 8 further comprising:

checking whether said engine torque M_{Motor} is less than a second desired torque M_{FW} for said engine;

increasing said M_{Motor} to equal said second desired torque M_{FW};

calculating clutch torques for first and second clutches in said twin-clutch transmission, said first clutch for a currently engaged gear and said second clutch for said correct target gear; and,

completing a cross-over shift.

15. (new)   The method of Claim 14 further comprising:

setting a third setpoint torque M_{Mot_soll} equal to said said second desired torque M_{FW}.

16. (new)   The method of Claim 14 wherein increasing said M_{Motor} further comprises increasing a fourth setpoint torque M_{Mot_soll}.

17. (new)   The method of Claim 16 wherein increasing a fourth M_{Mot_soll} further comprises linearly increasing said fourth M_{Mot_soll}.

18. (new)   The method of Claim 14 further comprising :

determining whether said M_{Motor} is less than said second M_{FW}; and,

performing at least two iterations of said steps of checking whether said M_{Motor} is less than said second M_{FW}; increasing a fourth setpoint torque M_{Mot_soll}; and, calculating said clutch torques for first and second clutches in said twin-clutch transmission.

19. (new)   A method of up-shifting a twin-clutch transmission in a vehicle, comprising:

operating said transmission in a gear, wherein a torque M_{Motor} for said engine is associated with operation in said gear;

selecting a higher gear;

calculating a torque M_{Red} for said engine, said M_{Red} associated with operation of said transmission in said higher gear; and,

reducing said M_{Motor} to equal said M_{Red}, prior to engaging said higher gear.

3

20. (new)   The method of Claim 19 wherein reducing said M_{Motor} to equal said M_{Red}, prior to engaging said higher gear further comprises decreasing a first setpoint torque M_{Mot_soll} for said engine.

21. (new)   The method of Claim 19 further comprising:

initiating a cross-over to said higher gear;

checking whether said M_{Motor} is less than a torque M_{FW} for said engine, said M_{FW} associated with a throttle control input for said vehicle;

calculating clutch torques for first and second clutches in said twin-clutch transmission, said first clutch associated with said gear and said second clutch associated with said higher gear; and,

completing said cross-over shift to said higher gear.

22. (new)   The method of Claim 21 further comprising increasing a setpoint torque M_{Mot_soll} for said engine to increase said M_{Motor}.